OIPE

RAW SEQUENCE LISTING   DATE: 09/26/2002
PATENT APPLICATION: US/10/086,177A   TIME: 14:57:23

Input Set : D:\SEQLIST.txt
Output Set: N:\CRF4\09252002\J086177A.raw

```
 3  <110> APPLICANT: Tudan, Christopher R.
 4         Merzouk, Ahmed
 5         Saxena, Geeta
 6         Eaves, Connie J.
 7         Cashman, Johanne
 8         Clark-Lewis, Ian
 9         Salari, Hassan
11  <120> TITLE OF INVENTION: CXCR Agonist Treatment of Hematopoietic
12         Cells
14  <130> FILE REFERENCE: SMAR-012CIP
16  <140> CURRENT APPLICATION NUMBER: 10/086,177A
17  <141> CURRENT FILING DATE: 2002-02-26
19  <150> PRIOR APPLICATION NUMBER: 09/835,107
20  <151> PRIOR FILING DATE: 2001-04-12
22  <150> PRIOR APPLICATION NUMBER: 60/232,425
23  <151> PRIOR FILING DATE: 2000-09-14
25  <150> PRIOR APPLICATION NUMBER: CA 2,305,036
26  <151> PRIOR FILING DATE: 2000-04-12
28  <150> PRIOR APPLICATION NUMBER: CA 2,335,109
29  <151> PRIOR FILING DATE: 2001-02-23
31  <160> NUMBER OF SEQ ID NOS: 34
33  <170> SOFTWARE: FastSEQ for Windows Version 4.0
35  <210> SEQ ID NO: 1
36  <211> LENGTH: 67
37  <212> TYPE: PRT
38  <213> ORGANISM: Homo sapiens
40  <400> SEQUENCE: 1
41  Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Glu Ser
42   1               5                  10                  15
43  His Val Ala Arg Ala Asn Val Lys His Leu Lys Ile Leu Asn Thr Pro
44                  20                  25                  30
45  Asn Cys Ala Leu Gln Ile Val Ala Arg Leu Lys Asn Asn Asn Arg Gln
46              35                  40                  45
47  Val Cys Ile Asp Pro Lys Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys
48       50                  55                  60
49  Ala Leu Asn
50  65
53  <210> SEQ ID NO: 2
54  <211> LENGTH: 93
55  <212> TYPE: PRT
56  <213> ORGANISM: Homo sapiens
58  <400> SEQUENCE: 2
59  Met Asn Ala Lys Val Val Val Val Leu Val Leu Val Leu Thr Ala Leu
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```
60   1                5                10               15
61  Cys Leu Ser Asp Gly Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys
62           20                25               30
63  Arg Phe Phe Glu Ser His Val Ala Arg Ala Asn Val Lys His Leu Lys
64           35                40               45
65  Ile Leu Asn Thr Pro Asn Cys Ala Leu Gln Ile Val Ala Arg Leu Lys
66       50                55                60
67  Asn Asn Asn Arg Gln Val Cys Ile Asp Pro Lys Leu Lys Trp Ile Gln
68  65                70                75               80
69  Glu Tyr Leu Glu Lys Ala Leu Asn Lys Arg Phe Lys Met
70               85                90
73  <210> SEQ ID NO: 3
74  <211> LENGTH: 93
75  <212> TYPE: PRT
76  <213> ORGANISM: Homo sapiens
78  <400> SEQUENCE: 3
79  Met Asn Ala Lys Val Val Val Val Leu Val Leu Val Leu Thr Ala Leu
80   1                5                10               15
81  Cys Leu Ser Asp Gly Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys
82           20                25               30
83  Arg Phe Phe Glu Ser His Val Ala Arg Ala Asn Val Lys His Leu Lys
84           35                40               45
85  Ile Leu Asn Thr Pro Asn Cys Ala Leu Gln Ile Val Ala Arg Leu Lys
86       50                55                60
87  Asn Asn Asn Arg Gln Val Cys Ile Asp Pro Lys Leu Lys Trp Ile Gln
88  65                70                75               80
89  Glu Tyr Leu Glu Lys Ala Leu Asn Lys Arg Phe Lys Met
90               85                90
93  <210> SEQ ID NO: 4
94  <211> LENGTH: 17
95  <212> TYPE: PRT
96  <213> ORGANISM: Artificial Sequence
98  <220> FEATURE:
99  <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-17): or
100         CICE9902
102  <400> SEQUENCE: 4
103  Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Glu Ser
104   1                5                10               15
105  His
109  <210> SEQ ID NO: 5
110  <211> LENGTH: 6
111  <212> TYPE: PRT
112  <213> ORGANISM: Artificial Sequence
114  <220> FEATURE:
115  <223> OTHER INFORMATION: Synthesized in Laboratory
117  <400> SEQUENCE: 5
118  Arg Phe Phe Glu Ser His
119   1                5
122  <210> SEQ ID NO: 6
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PATENT APPLICATION: US/10/086,177A   TIME: 14:57:23

Input Set : **D:\SEQLIST.txt**
Output Set: **N:\CRF4\09252002\J086177A.raw**

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      123 <211> LENGTH: 9
      124 <212> TYPE: PRT
      125 <213> ORGANISM: Artificial Sequence
      127 <220> FEATURE:
      128 <223> OTHER INFORMATION: Synthesized in Laboratory
      130 <400> SEQUENCE: 6
      131 Lys Pro Val Ser Leu Ser Tyr Arg Cys
      132  1               5
      135 <210> SEQ ID NO: 7
      136 <211> LENGTH: 9
      137 <212> TYPE: PRT
      138 <213> ORGANISM: Artificial Sequence
      140 <220> FEATURE:
      141 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-9)
      142        2-C9/C9-cysteine dimer: or CTCE9901
      144 <400> SEQUENCE: 7
      145 Lys Pro Val Ser Leu Ser Tyr Arg Cys
      146  1               5
      149 <210> SEQ ID NO: 8
      150 <211> LENGTH: 10
      151 <212> TYPE: PRT
      152 <213> ORGANISM: Artificial Sequence
      154 <220> FEATURE:
      155 <223> OTHER INFORMATION: Synthesized in Laboratory
W--> 157 <221> NAME/KEY: VARIANT
      158 <222> LOCATION: 10
      159 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 161 <221> VARIANT
      162 <222> LOCATION: 10
      163 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 165 <400> 8
W--> 166 Lys Pro Val Ser Leu Ser Tyr Arg Cys Xaa
      167  1               5               10
      170 <210> SEQ ID NO: 9
      171 <211> LENGTH: 9
      172 <212> TYPE: PRT
      173 <213> ORGANISM: Artificial Sequence
      175 <220> FEATURE:
      176 <223> OTHER INFORMATION: Synthesized in Laboratory
      178 <400> SEQUENCE: 9
      179 Lys Pro Val Ser Leu Ser Tyr Arg Cys
      180  1               5
      183 <210> SEQ ID NO: 10
      184 <211> LENGTH: 9
      185 <212> TYPE: PRT
      186 <213> ORGANISM: Artificial Sequence
      188 <220> FEATURE:
      189 <223> OTHER INFORMATION: Synthesized in Laboratory
W--> 191 <221> NAME/KEY: VARIANT
```

Input Set : **D:\SEQLIST.txt**
Output Set: **N:\CRF4\09252002\J086177A.raw**

```
        192 <222> LOCATION: 9
        193 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W-->    195 <221> VARIANT
        196 <222> LOCATION: 9
        197 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W-->    199 <400> 10
W-->    200 Lys Pro Val Ser Leu Ser Tyr Arg Xaa
        201 1               5
        204 <210> SEQ ID NO: 11
        205 <211> LENGTH: 8
        206 <212> TYPE: PRT
        207 <213> ORGANISM: Artificial Sequence
        209 <220> FEATURE:
        210 <223> OTHER INFORMATION: Synthesized in Laboratory
        212 <400> SEQUENCE: 11
        213 Lys Pro Val Ser Leu Ser Tyr Arg
        214 1               5
        217 <210> SEQ ID NO: 12
        218 <211> LENGTH: 30
        219 <212> TYPE: PRT
        220 <213> ORGANISM: Artificial Sequence
        222 <220> FEATURE:
        223 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-14) - (G)
        224       3-SDF-1 (55-67) acid
        226 <400> SEQUENCE: 12
        227 Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Gly Gly
        228 1               5                   10                  15
        229 Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu Asn
        230               20                  25                  30
        233 <210> SEQ ID NO: 13
        234 <211> LENGTH: 31
        235 <212> TYPE: PRT
        236 <213> ORGANISM: Artificial Sequence
        238 <220> FEATURE:
        239 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-14) - (G)
        240       3-SDF-1 (55-67) acid: or CTCE0013
        242 <400> SEQUENCE: 13
        243 Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Gly Gly
        244 1               5                   10                  15
        245 Gly Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu Asn
        246               20                  25                  30
        249 <210> SEQ ID NO: 14
        250 <211> LENGTH: 30
        251 <212> TYPE: PRT
        252 <213> ORGANISM: Artificial Sequence
        254 <220> FEATURE:
        255 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-14) - (G)
        256       3-SDF-1 (55-67) amide
        258 <400> SEQUENCE: 14
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PATENT APPLICATION: US/10/086,177A   TIME: 14:57:23

Input Set : D:\SEQLIST.txt
Output Set: N:\CRF4\09252002\J086177A.raw

259 Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Gly Gly
260 1   5   10   15
261 Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu Asn
262   20   25   30
265 <210> SEQ ID NO: 15
266 <211> LENGTH: 31
267 <212> TYPE: PRT
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-14) - (G)
272   3-SDF-1 (55-67) amide: or CTCE0017
274 <400> SEQUENCE: 15
275 Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Gly Gly
276 1   5   10   15
277 Gly Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu Asn
278   20   25   30
281 <210> SEQ ID NO: 16
282 <211> LENGTH: 33
283 <212> TYPE: PRT
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-17) - (G)
288   3-SDF-1 (55-67) acid
290 <400> SEQUENCE: 16
291 Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Glu Ser
292 1   5   10   15
293 His Gly Gly Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala Leu
294   20   25   30
295 Asn
299 <210> SEQ ID NO: 17
300 <211> LENGTH: 34
301 <212> TYPE: PRT
302 <213> ORGANISM: Artificial Sequence
304 <220> FEATURE:
305 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-17) - (G)
306   3-SDF-1 (55-67) acid
308 <400> SEQUENCE: 17
309 Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Glu Ser
310 1   5   10   15
311 His Gly Gly Gly Gly Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys Ala
312   20   25   30
313 Leu Asn
317 <210> SEQ ID NO: 18
318 <211> LENGTH: 33
319 <212> TYPE: PRT
320 <213> ORGANISM: Artificial Sequence
322 <220> FEATURE:
323 <223> OTHER INFORMATION: Synthesized in Laboratory: SDF-1 (1-17) - (G)
324   3-SDF-1 (55-67) amide

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 09/26/2002
PATENT APPLICATION: US/10/086,177A   TIME: 14:57:24

Input Set : D:\SEQLIST.txt
Output Set: N:\CRF4\09252002\J086177A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; Xaa Pos. 10
Seq#:10; Xaa Pos. 9

VERIFICATION SUMMARY DATE: 09/26/2002
PATENT APPLICATION: US/10/086,177A TIME: 14:57:24

Input Set : **D:\SEQLIST.txt**
Output Set: **N:\CRF4\09252002\J086177A.raw**

```
L 157 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L 161 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8
L 165 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8
L 166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:191 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:195 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10
L:199 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
```